



2018 South Dakota Winter Wheat Variety Trial Results Wall

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Cooperator: Dale Patterson
Location: 44.10417°, -102.34667°
Soil Type: Santana loam, 0-2% slopes
Previous crop: Winter Wheat/Fallow
Tillage: No-till
Row spacing: 10"
Seeding Rate: 1.2 million PLS/acre
Fertilizer:
-**Starter:** 6 gal/acre 10-25-0 + 4 gal/acre water carrier
-**Other:** 45 gal/acre 28-0-0 mid-row banded
Herbicide:
-**Burndown:** 24 oz Durango + 6 oz Barrage
-**Post:** 8 oz Barrage + 0.05 oz Ally
Fungicide: 2 oz Tebuconazole (applied with herbicide)
Date seeded: 10/4/2017
Date harvested: 7/20/2018

Table 1. 2018 winter wheat variety performance trial results (average of 4 replications) at Wall, SD.
Entries are sorted by overall 3-year yield. Varieties yielding in the top 1/3 of the trial are shaded light blue.

Variety	Height (in)	Lodging* (1-5)	Test Wt (lbs)	Protein %	2016 (bu/a)	2017 (bu/a)	2018 (bu/a)	2-year (bu/a)	3-year (bu/a)
Ideal	30	NR	58.3	11.4	66.1	65.2	70.9	68.0	67.4
SY Monument	33	-	57.7	11.5	72.2	52.4	73.8	63.1	66.1
Cowboy	30	-	59.1	11.1	75.0	51.0	65.5	58.2	63.8
Overland	33	-	57.5	11.8	65.2	58.7	66.4	62.5	63.4
SY Wolf	32	-	59.5	12.0	62.4	57.4	69.7	63.5	63.2
LCS Mint	34	-	60.2	11.2	66.4	52.5	68.5	60.5	62.4
PSB13NEDH-7-140	33	-	59.8	12.5	62.9	54.2	68.0	61.1	61.7
Wesley	33	-	57.4	11.8	56.9	53.3	74.0	63.6	61.4
Oahe	32	-	58.6	11.5	63.9	47.2	72.1	59.6	61.0
Avery	31	-	58.1	10.9	69.0	49.1	64.8	57.0	61.0
Lyman	32	-	57.4	12.2	60.3	50.3	71.4	60.8	60.7
SY Sunrise	30	-	57.4	11.5	65.1	44.9	70.8	57.9	60.3
Thompson	31	-	59.0	12.2	55.4	58.3	66.2	62.2	59.9
Redfield	30	-	59.2	11.6	63.1	40.5	74.0	57.2	59.2
WB-Grainfield	31	-	57.5	11.1	58.7	40.8	74.0	57.4	57.8
Expedition	35	-	58.9	11.8	55.4	53.6	60.3	56.9	56.4
Alice	33	-	56.4	12.0	55.8	41.2	69.7	55.5	55.6
Langin	31	-	56.7	10.9	-	70.0	67.6	68.8	-
Keldin	32	-	58.8	11.5	-	57.2	73.4	65.3	-
Dyna-Gro Long Branch	35	-	58.2	11.0	-	54.1	70.2	62.1	-
SY 517 CL2	35	-	60.2	11.8	-	45.7	73.0	59.3	-
LCS Link	32	-	58.9	11.1	-	-	73.5	-	-
SY Benefit	32	-	57.9	11.5	-	-	72.0	-	-
NHH144913-3	38	-	55.9	11.8	-	-	71.7	-	-
LCS Chrome	32	-	59.9	12.1	-	-	67.6	-	-
WB4462	36	-	55.4	12.5	-	-	63.5	-	-
WB4418	33	-	56.5	11.5	-	-	61.1	-	-
WB4623CLP	35	-	54.3	12.5	-	-	46.3	-	-
Trial Average#	32	-	58.3	11.6	61.8	52.4	69.5	-	-
LSD(0.05)†	-	-	2.4	0.5	6.7	14.3	12.9	-	-
C.V.%‡	-	-	2.9	2.8	7.8	19.5	12.2	-	-

* Lodging score: 1, perfectly standing; to 5, completely flat.

Trial averages may include values from experimental lines that are not reported.

† Value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is considered acceptable.